

IN THE CLAIMS

1. (Previously Presented) A method of printing comprising:
posting a document on a server from a computer workstation as a print job for an identified printer and transmitting from the computer workstation a first security key separate from the document and that uniquely identifies the document, the first security key configured to enable activation of an identified printer via a mobile computing device to execute the print job for printing the document;
preventing printing of the print job at the identified printer until:
a later time when the mobile computing device is located within a wireless transmission range of the identified printer to confirm the presence of the mobile computing device adjacent the identified printer and
the later time when the mobile computing device wirelessly transmits to the identified printer printing instructions and the first security key to enable activation of the identified printer to execute the print job to print the document.
- 2-3 (Canceled).
4. (Previously Presented) The method of claim 3, wherein posting a document comprises:
providing the printer as commercial printer wherein the server defines a portion of a commercial printing web site.
5. (Previously Presented) The method of claim 3 wherein posting a document comprises specifying a location of the identified printer, apart from a plurality of other printers, at which the document will be printed.
6. (Previously Presented) The method of claim 1, wherein wirelessly transmitting a security key in preventing printing of the print job comprises:

transmitting the security key by at least one of the following wireless communication protocols: infrared; Bluetooth; and WAP.

7. (Canceled)

8. (Previously Presented) The method of claim 1, wherein preventing printing of the print job comprises:

using a Java applet for wirelessly transmitting the printing instructions to print the print job and the security key; and

receiving and operating the Java applet, to execute the print job, with a Java virtual machine of the identified printer.

9. (Canceled)

10. (Previously Presented) A method of printing comprising: carrying a document on a mobile computing device as a print job for a remote printer;

wirelessly transmitting the print job, including printing instructions, to the printer from the mobile computing device, the print job configured to be enabled for printing via an electronic security key; and

printing the print job on the remote printer when the user wirelessly transmits to the remote printer the electronic security key from the mobile computing device, after wireless transmission of the print job, to enable printing of the print job on the remote printer.

11. (Previously Presented) A method of printing comprising:

directing printing of a print job via electronically authorizing, without a physical security key, the print job on a server for printing at a first printer;

selectively delaying printing of the print job until the first printer receives printing instructions and an electronic security key via an authorized wireless transmission from a mobile computing device to authorize printing of the print job by the first printer according to the printing instructions; and

enabling printing of the print job with the authorized wireless transmission based on at least one of a distance from a source of the wireless transmission from the mobile computing device to the first printer, a time delay factor associated with the first printer, and a type of wireless transmission.

12 -13. (Canceled)

14. (Previously Presented) The method of claim 11 wherein posting a document comprises:

identifying via the mobile computing device the first printer as uniquely from among a plurality of printers within a computing network; and

wherein selectively delaying printing of the print job comprises delaying printing until a presence of the mobile computing device is automatically detected via the first printer when the mobile computing device enters a wireless communication range with the first printer

15. (Canceled)

16. (Previously Presented) The method of claim 1 wherein posting a document comprises:

providing the document as a passenger ticket service document, associated with a pre-identified consumer travel service, on the server at a consumer travel service facility;

wherein the printing instructions request the pre-identified consumer travel service and printing of the passenger ticket service document; and

delivering the pre-identified travel service to the consumer via printing the passenger ticket service document on the printer at the consumer travel service facility.

17. (Previously Presented) The method of claim 16 wherein providing the document comprises:

producing the passenger travel service document as an airline passenger ticket.

18. (Previously Presented) The method of claim 17 wherein producing the passenger travel service document comprises:
 providing the passenger travel service document to include printed news and entertainment information that is personal to the consumer.
19. (Previously Presented) The method of claim 11 and further comprising:
 selectively contracting with a public printing service to print the document as the print job with the printer being a publicly accessible printer in a public venue.
20. (Original) The method of claim 19, further comprising:
 specifying the server to include at least one of a private server and a server of the public printing service.
21. (Previously Presented) The printer of claim 25 comprising a printing system comprising:
 a mobile computing device for holding the security key and printing instructions and having a wireless communication module for activating the printer to print the document as the print job when the mobile computing device is within a select proximity of the printer.
22. (Canceled)
23. (Previously Presented) The printing system of claim 24 wherein the server comprises a network printing manager menu comprising:
 a document identification field;
 a document upload function;
 a printer location function configured to identify a location of the printer; and
 a security key field for identifying and activating the security key to selectively control printing of the document.

24. (Previously Presented) The printer of claim 25 and further comprising a printing system comprising a server for holding the document as the print job for printing at the printer.

25. (Previously Presented) A printer comprising:
a printing mechanism for printing a document as a print job and configured to store the print job for later execution by the printing mechanism;
a device independent program language reader;
a wireless communication module configured to receive a wireless transmission securely requesting printing a document on the printer wherein the wireless transmission includes a security key and printing instructions with both of the security key and the printing instructions provided in the wireless transmission in device independent programming language to be implemented by the device independent program language reader, wherein the security key is separate from the document and the wireless communication module is configured to receive the wireless transmission of the security key at a point in time after the print job is stored via the printing mechanism.

26. (Previously Presented) The printer of claim 25, wherein the device independent program language reader comprises a Java virtual machine and the device independent programming language comprises Java programming language, and wherein the Java virtual machine comprises the printing instructions and the security key.

27. (Previously Presented) A mobile computing device comprising:
a controller; and
a wireless communication module configured for activating a printer to print a document, available to the printer, as a print job via a wireless transmission that sends printing instructions and a security key to the printer, the security key being separate from the document and configured to enable the printer to print the print job, the wireless communication module including an automatic identification module to identify to the printer, based on a presence of the mobile computing device within a wireless communication range with the printer, that an individual associated with the mobile computing device is adjacent the printer to retrieve the printed document from the printer.

Amendment and Response under 37 C.F.R. 1.116

Applicant: Von L. Hansen

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Title: SECURE PRINTING SYSTEM AND METHOD

28. (Previously Presented) The mobile computing device of claim 27 wherein the communication module further comprises:

an authorization module configured for recognizing the printer and configured for permitting printing of the document based on at least one of a distance of the mobile computing device relative to the printer, a time factor associated with the printer, and a type of wireless transmission associated with the printer.

29. (Previously Presented) A computer-readable medium having computer-executable instructions for performing a method of printing, the method comprising:

posting a document on a server from a computer workstation as a print job for an identified printer and transmitting from the computer workstation a first security key separate from the document and that uniquely identifies the document, the first security key configured to enable activation of an identified printer via a mobile computing device to execute the print job for printing the document;

preventing printing of the print job at the identified printer until a later time when the mobile computing device is located within a wireless transmission range of the identified printer to confirm a presence of the mobile computing device adjacent the identified printer, and until the later time when the mobile computing device wirelessly transmits to the identified printer printing instructions and the first security key to enable activation of the identified printer to execute the print job to print the document.

30. (Previously Presented) The medium of claim 29 and further comprising:

determining whether the mobile computing device is authorized to enable execution of the print job at the identified printer based on at least one of a select proximity between a source of the wireless transmission and the identified printer, a time factor associated with the identified printer, and a type of the wireless transmission between the mobile computing device and the identified printer.

31-32. (Canceled)

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33. (Previously Presented) The medium of claim 29, wherein preventing printing of the print job comprises:

using a Java applet to send the printing instructions and the second security key from the mobile computing device to the identified printer.